

Gauri Toshniwal

E-mail: gaurigst1970@gmail.com | LinkedIn: [GauriToshniwal](#) | Github: [GauriToshniwal](#) |
Website: [GauriToshniwal](#) | Leetcode: [GauriToshniwal](#) | Mobile No. : 9130687967

EDUCATION

National Institute of Technology, Tiruchirappalli	Tamil Nadu, India
<i>Masters of Technology - Data Analytics (CGPA: 9.49/10) [Rank 1]</i>	08/2023 - 06/2025
Coursework: Deep Learning, NLP, Machine Learning, Federated Learning, Mathematics (Linear Algebra, Probability)	
Government College of Engineering, Nagpur	Maharashtra, India
<i>Bachelor of Engineering - Computer Science and Engineering (CGPA: 9.42/10)</i>	06/2021
Coursework: Operating Systems, Data Structures & Algorithms, Artificial Intelligence, Databases, Discrete Mathematics, Compilers	

RESEARCH

- **Step-by-Step or All-at-Once? Sequential Fine-Tuning for Solving Math Word Problems** 07/2024 - Current
Explores the impact of difficulty-based ordering, sequential fine-tuning, and progressive parameter shrinking in LLMs.
(Master's Thesis) (Paper Submitted and In Review)
- **Contextual QA for Financial Causality Detection Combining Extractive and Generative Models** 12/2024
Secured **3rd Rank** in the English Subtask at FNP Workshop FinCausal 2025, COLING, with a SAS score of 96.74% and EM score of 70.14% using a hybrid RoBERTa-base and Gemma2-9B model. ([Paper](#))
- **DECOR 2022@ICDE, 38th IEEE International Conference on Data Engineering** [Paper](#) 05/2022
Won **Best Student Paper Award** for "Object Detection in Indian Food Platters using Transfer Learning with YOLOv4"

WORK EXPERIENCE

Astreyia	Remote, India
<i>AI/ML Intern</i>	01/2025 - Current
Ticket Volume Forecasting on sparse time series data using the Croston Method in BigQuery ML for improved resource planning.	
Findability Sciences	Remote, India
<i>Data Scientist (Onsite - Hindustan Times Digital)</i>	05/2021 - 08/2023
<ul style="list-style-type: none">• Demographics (Gender, Age, Interest) Prediction: Built user-level classifiers for gender, age, and interest prediction using grammatical and entity-based features from news headlines, achieving an F1 score of 0.65 for 2M users daily. Eliminated reliance on third-party data, saving ₹500,000/month. Migrated feature engineering and model inference pipelines to PySpark for scalability.• Subscription Churn Prediction and Retention Feed: Developed XGBoost models (d-60, d-30, d-15) to track churn probability shifts and used SHAP for interpretability. Refactored backend logic and exposed model predictions via a new API endpoint in the Flask server, powering a personalized retention feed that improved user engagement.	

PROJECTS

- **Closed Domain Event Extraction on RAMS Dataset** [Github](#) 05/2024
Transformed event trigger identification, classification and argument detection, into token classification problems using BIO tagging, then applied BERT-based models for token classification.
- **Comprehensive Solution for Indian Sign Language Recognition and Translation:** [Github](#) 06/2021
Developed an ISL recognition and translation system, creating video and hand landmark datasets, and implementing an English-to-ISL text module using PoS tagging and rule based rearranging. Utilized Inception v3 and LSTM for converting ISL gestures to English text, and Mediapipe for real-time ISL detection and classification.

ACADEMIC ACHIEVEMENTS

- **Awarded Reliance Foundation Postgraduate Scholarship for the year 2023-24** 06/2024
Received by top 100 students nationwide for exceptional academic achievement and potential in technology and engineering
- **ACM Summer School on Responsible and Safe AI** [Certificate](#) 06/2024
Selected and Attended summer school hosted by IIT Madras
- **AI Safety Fundamentals - Bluedot Impact** [Certificate](#) 03/2024 - 06/2024
Selected for a 12-week online course, covering a range of technical AI alignment research agendas

SKILLS

Languages and Frameworks: Python, C++, C; Pandas, Scikit-learn, PyTorch, Numpy, Flask, Pyspark
Tools and Platforms: Git, HuggingFace, SQL, MongoDB, Redis, Looker Studio, BigQueryML
Areas of Interest: NLP, Deep Learning, AI Safety